

Surjana Joshi

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📍 Kathmandu, Nepal

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Profile

As a dedicated and motivated computer science graduate student, I am looking for a position where I can practice my analytical skills, programming expertise, and passion for data-driven insights. I am eager to be involved in a dynamic team, and potentially contribute by applying my knowledge in statistical analysis, machine learning, and data visualization to solve complex problems. I am driven by a fascination for figuring out patterns and trends within data, and I thrive in collaborative environments that encourage innovation and continuous learning.

Professional Experience

2023/04 – Present
Kathmandu, Nepal

Web Developer

Plutonic Tech

- Developed and maintained interactive and responsive web applications using React.js and modern front-end technologies, resulting in enhanced user engagement and improved site performance.
- Implemented efficient back-end solutions using Node.js optimizing application performance and data handling.
- Implemented user authentication and authorization systems, improving security and ensuring a safe user environment.
- Conducted thorough testing and debugging to identify and fix issues, resulting in smoother application workflows and reduced errors.

2022/03 – 2022/09
Kathmandu, Nepal

Web Developer

Deerhold Pvt Ltd

- Developed user interfaces for deployment of a Human Resource Management web application used to manage the administrative activities of the organization.
- Collaborated with project managers to select ambitious, but realistic coding milestones on pre-release of the project.
- Programmed REST calls using React to streamline user interface performance.
- Updated existing code bases to improve functionality.

2023/05 – Present
Kathmandu, Nepal

IELTS Instructor

Arete Education Consultancy

- Conducted IELTS preparation classes for groups of up to 10 students, focusing on all four language skills: Listening, Reading, Writing, and Speaking.
- Developed and implemented lesson plans tailored to students' language levels and individual needs
- Provided individualized feedback and guidance to students to help them identify areas for improvement and develop effective study strategies.

Education

2017 – 2022
Kathmandu, Nepal

Bachelors of Science in Computer Science and Information Technology

Deerwalk Institute of Technology

Relevant coursework

Algorithms and Data Structures, Probability and Statistics, Linear Algebra, Artificial Intelligence, Data Mining, Database Systems and SQL

Undergrad Final Year Project

Visualizer For Pathfinding Algorithms and Sorting Algorithms:

- Designed and developed a dynamic educational website using JavaScript to create interactive visualizations of pathfinding and sorting algorithms.
- The primary goal was to enhance users' comprehension of algorithmic processes by animating the step-by-step workings of these algorithms.

Skills

Programming languages and Frameworks

Python, C, C++, HTML, CSS, JavaScript, React

Data manipulation/analysis

Pandas, NumPy, Feature Engineering

Data visualization

Matplotlib, Seaborn

Data Querying and Database Systems

SQL, MySQL, MsSQL

Version Control

Git, GitHub

Projects

Car Price Prediction Project

- Created a versatile used car valuation tool that allows car dealerships and buyers to estimate the market value of pre-owned vehicles based on their characteristics.
- Conducted Exploratory Data Analysis to establish a robust Validation Framework, implemented Linear Regression for model training, and used Root Mean Square Error (RMSE) as a key metric to assess prediction accuracy

Customer Churn Prediction using Binary Classification

- Constructed a machine learning model, employing classification techniques to pinpoint customers at risk of churning or ending their association with a business. The project's binary framework offers concise and actionable insights for informed decision-making.